AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims

1. (Currently Amended) A method of authentication and authorization support for Mobile IP version 6 (MIPv6) in a CDMA system, the method comprising the steps of:

transferring, between a mobile node in a visited network and a home network of the mobile node, MIPv6-related authentication and authorization information;

wherein the transferring step is performed in an authentication protocol; and wherein the transferring step is performed in an end-to-end procedure transparent to the visited network over an AAA Authentication, Authorization, and Accounting (AAA) infrastructure.

- 2. (Canceled)
- 3. (Previously Presented) The method of claim 1, wherein the end-to-end procedure is executed between the mobile node and an AAA server in the home network, and nodes in the visited network act as mere pass-through agents in the end-to-end procedure.
- 4. (Previously Presented) The method of claim 3, wherein the MIPv6-related information is transferred in the authentication protocol between the mobile node and the AAA home network server via an internetworking access server located in the visited network.
 - 5. (Canceled)

6. (Previously Presented) The method of claim 4, wherein point-to-point communication between the mobile node and the internetworking access server is configured based on the CSD-PPP protocol.

7. (Canceled)

8 (Currently Amended) The method of claim-2 claim 1, wherein the authentication protocol is an extended Extensible Authentication Protocol (EAP) and the MIPv6-related authentication and authorization information is incorporated as additional data in the EAP protocol stack.

9. (Canceled)

- 10. (Previously Presented) The method of claim 8, wherein the MIPv6-related information is transferred in a generic container attribute available for any EAP method.
- 11. (Previously Presented) The method of claim 8, wherein the MIPv6-related information is transferred in a method-specific generic container attribute of the method layer in the EAP protocol stack.

12-14. (Canceled)

15. (Previously Presented) The method of claim 1, wherein said method further comprises the step of performing, for the purpose of MIPv6 hand-in, CHAP authentication between the mobile node and the home network.

16-17. (Canceled)

- 18. (Previously Presented) The method of claim 1, wherein the MIPv6-related information is transferred over the AAA infrastructure for allocation of a home agent, for establishing a MIPv6 security association between the mobile node and the home agent and for establishing a binding for the mobile node in the home agent.
 - 19. (Canceled)
- 20. (Previously Presented) The method of claim 4, wherein the internetworking access server offers the mobile node the possibility to use PPP or CSD-PPP by sending out a standard PPP/LCP packet and at least a PPP/EAP packet.

21-22. (Canceled)

23. (Previously Presented) The method of claim 20, wherein the internetworking access server also sends out a PPP/CHAP packet together with the PPP/LCP and PPP/EAP packets.

24-26. (Canceled)

27. (Currently Amended) A system for authentication and authorization support for Mobile IP version 6 (MIPv6) in a CDMA system, comprising:

means for transferring between a mobile node in a visited network and a home network of the mobile node, MIPv6-related authentication and authorization information, said transferring means including:

[[in]] an authentication protocol; and

means for transferring the information in an end-to-end procedure transparent to the visited network-over an AAA Authentication, Authorization, and Accounting (AAA) infrastructure.

28. (Canceled)

- 29. (Previously Presented) The system of claim 27, wherein the end-to-end procedure is between the mobile node and an AAA server in the home network, and nodes in the visited network act as mere pass-through agents in the end-to-end procedure.
- 30. (Previously Presented) The system of claim 29, wherein the MIPv6-related information is transferred in the authentication protocol between the mobile node and the AAA home network server via an internetworking access server located in the visited network.
 - 31. (Canceled)
- 32. (Previously Presented) The system of claim 30, further comprising means for configuring point-to-point communication between the mobile node and the internetworking access server based on the CSD-PPP protocol.
 - 33. (Canceled)
- 34. (Previously Presented) The system of claim 27, wherein the authentication protocol is an extended Extensible Authentication protocol (EAP) and the MIPv6-related authentication and authorization information is incorporated as additional data in the EAP protocol stack.
 - 35. (Canceled)
- 36. (Previously Presented) The system of claim 34, wherein said means for transferring MIPv6-related information comprises means for transferring the MIPv6-related information in a generic container attribute available for any EAP method.

37. (Previously Presented) The system of claim 34, wherein said means for transferring MIPv6-related information comprises means for transferring the MIPv6-related information in a method-specific generic container attribute of the method layer in the EAP protocol stack.

38-40. (Canceled)

- 41. (Previously Presented) The system of claim 27, wherein said system further comprises means for performing, for the purpose of MIPv6 hand-in, CHAP authentication between the mobile node and the home network.
 - 42. (Canceled)
- 43. (Previously Presented) The system of claim 27, wherein said means for transferring MIPv6-related information is operable for transferring the MIPv6-related information over the AAA infrastructure for allocation of a home agent for establishing a MIPv6 security association between the mobile node and the home agent, and for establishing a binding for the mobile node in the home agent.

44-45. (Canceled)

46. (Previously Presented) The system of claim 30, wherein the internetworking access server (22) is operable for offering the mobile node the possibility to use PPP or CSD-PPP by sending out a standard PPP/LCP packet and at least a PPP/EAP packet.

47-48. (Canceled)

49. (Previously Presented) The system of claim 46, wherein the internetworking access server is operable for sending out a PPP/CHAP packet together with the PPP/LCP and PPP/EAP packets.

50-52. (Canceled)

53. (Currently Amended) A system for Mobile IP version 6 (MIPv6) hand-in within a CDMA framework, characterized by said system comprising:

means for performing CHAP a Challenge Handshake Authentication Protocol (CHAP) authentication procedure between a mobile node in a visited network and an AAA server in a home network of the mobile node over an AAA infrastructure;

wherein nodes in the visited network act as mere pass-through agents in the CHAP procedure.

54-57. (Canceled)